

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A method comprising:

defining a predetermined event, the occurrence of the predetermined event to cause a spin-down of a hard disk;

detecting the occurrence of the predetermined event;

in response to the predetermined event,

spinning down the hard disk, and

storing historical performance data of ~~[[a]]~~ **the** hard disk on a non-volatile memory unit of a system, the data including data identifying ~~events that produced~~ **the predetermined event as a cause of** a spin-down of the hard disk and a period of time thereafter before the hard disk was spun up, the data being available on the memory unit after the system has been rebooted.

2. (Original) The method of claim 1, wherein the non-volatile memory unit is a cache for the hard disk.

3. (Original) The method of claim 2, wherein the non-volatile memory unit includes a form factor of a Mini Peripheral Component Interconnect Express card.
4. (Original) The method of claim 1, wherein the non-volatile memory unit includes a Peripheral Component Interconnect Express interface.
5. (Original) The method of claim 1, wherein the non-volatile memory unit consists of a thin film electronics memory.
6. (Previously Presented) The method of claim 1, further including using the historical performance data to implement a power management policy of the hard disk.
7. (Canceled).
8. (Currently Amended) A machine readable medium having stored thereon a set of instructions which when executed cause a system to perform a method comprising of:

**defining a predetermined event, the occurrence of the predetermined event
to cause a spin-down of a hard disk;**

detecting the occurrence of the predetermined event;

in response to the predetermined event,

spinning down the hard disk, and

storing historical performance data of [[a]] **the** hard disk on a non-volatile memory unit of a system, the data including data identifying events that produced **the predetermined event as a cause of** a spin-down of the hard disk and a period of time thereafter before the hard disk was spun up, the data being available on the memory unit after the system has been rebooted.

9. (Original) The machine readable medium of claim 8, wherein the non-volatile memory unit is a cache for the hard disk.

10. (Original) The machine readable medium of claim 9, wherein the non-volatile memory unit includes a form factor of a Mini Peripheral Component Interconnect Express card.

11. (Original) The machine readable medium of claim 8, wherein the non-volatile memory unit includes a Peripheral Component Interconnect Express interface.

12. (Original) The machine readable medium of claim 8, wherein the non-volatile memory unit consists of a thin film electronics memory.

13. (Canceled).

14. (Currently Amended) A system comprising of:

a processor;

a non-volatile cache coupled to the processor; and

a machine readable medium having stored thereon a set of instructions which when executed cause the system to perform a method comprising of:

defining a predetermined event, the occurrence of the predetermined event to cause a spin-down of a hard disk;

detecting the occurrence of the predetermined event;

in response to the predetermined event,

spinning down the hard disk, and

storing historical performance data of [[a]] **the** hard disk on the non-volatile cache of a system, the data including data identifying ~~events that produced~~ **the predetermined event as a cause of** a spin-down of the hard disk and a period of time thereafter before the hard disk was spun up, the data being available on the non-volatile cache after the system has been rebooted.

15. (Previously Presented) The system of claim 14, wherein the non-volatile cache is a cache for the hard disk.

16. (Original) The system of claim 14, wherein the non-volatile cache includes a form factor of a Mini Peripheral Component Interconnect Express card.

17. (Previously Presented) The system of claim 14, wherein the non-volatile cache includes a Peripheral Component Interconnect Express interface.

18. (Previously Presented) The system of claim 14, wherein the non-volatile cache consists of a thin film electronics memory.

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19. (Canceled).